

Green Walls

Green or vegetated walls can cool buildings and add interest to urban surfaces. Green walls can climb or grow directly on walls, or be part of a freestanding structure a few inches from the wall.

Green Walls can:

- 🌿 provide insulation and natural cooling
- 🌿 reduce the solar reflectance of a structure, thus reducing urban heat island effect
- 🌿 absorb sound from noisy streets
- 🌿 intercept rainwater and increase evaporation
- 🌿 improve air quality

$\times 0.7_{sf}$
green factor



Above: Seattle's City Hall uses the Boston ivy for a trailing green effect.

Below Left: Living wall at the Vancouver Aquarium in B.C., Canada.

Below: Vancouver's wall being installed.

Below Right: Detail of Capitol Hill Library's support structure for vines.

2 Kinds of Green Walls



Living Walls are modular systems that hold growing medium and plants vertically. These support a wide variety of groundcovers, ferns, edibles and even low-growing shrubs.



Green Façades are support structures on which to train climbing or cascading greenery planted either at the base or on the roof.